

TITLE  
PROCESS FOR THE PRODUCTION OF  
NANO-SIZED ZEOLITE A

ABSTRACT

5           Described is a process to synthesize nano-size Zeolite A from an  
amorphous gel precursor which can be synthesized via reaction of  
NaAlO<sub>2</sub>, NaOH, and tetraethoxysilane (TEOS). Zeolite A with particle sizes  
of ~ 150 nm was made by transformation of the amorphous precursor in  
(CH<sub>3</sub>)<sub>4</sub>NOH solution with Zeolite A seeding. The nano-sized Zeolite A can  
10 be part of processes for making non-phosphate detergent where the as-  
synthesized Zeolite A used as builders, for making thin films for separation  
and/or catalysis, for making secondary ordered patterns.

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BCS/dmm